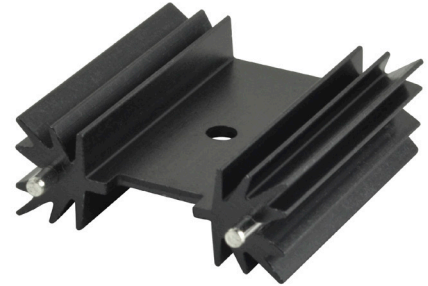


**SERIES:** HSE-BX-035H-01 | **DESCRIPTION:** HEAT SINK

**FEATURES**

- TO-220 package
- placement pins for secure PCB attachment
- round hole for component attachment
- multiple available cut lengths



**MODEL**

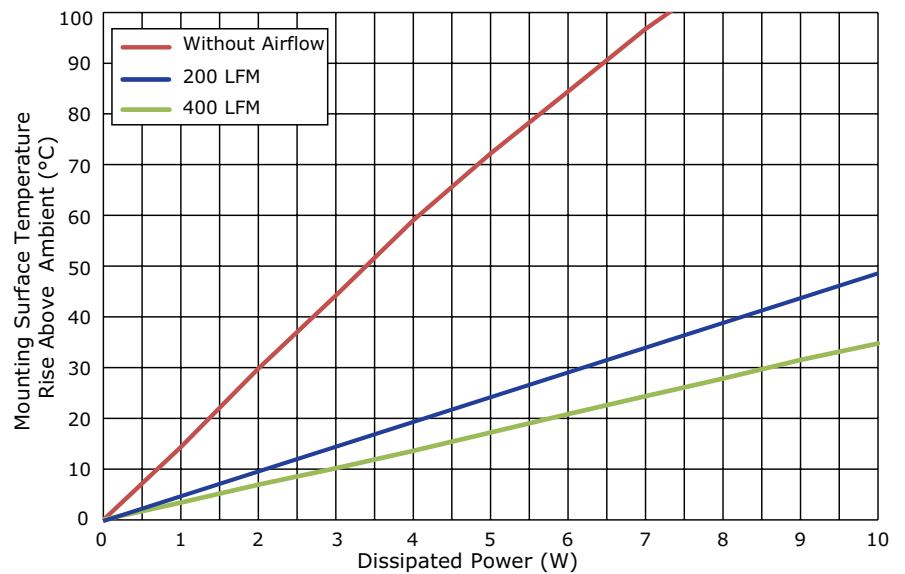
	length (mm)	thermal resistance <sup>1</sup>				power dissipation <sup>1</sup> @ 75°C ΔT, nat conv (W)
		@ 75°C ΔT, nat conv (°C/W)	@ 1 W, nat conv (°C/W)	@ 1 W, 200 LFM (°C/W)	@ 1 W, 400 LFM (°C/W)	
HSE-B20254-035H-01	25.4	14.42	14.36	4.42	3.40	5.20
HSE-B20381-035H-01	38.1	10.71	10.51	2.67	2.43	7.00

Note: 1. See performance curves for full thermal resistance details.  
2. Custom cut to length options available. Thermal data not available on custom lengths.

**PERFORMANCE CURVES**

**HSE-B20254-035H-01**

Power (W)	Heatsink Temperature Rise Above Ambient (ΔT = Ths - Ta) (°C)		
	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	14.36	4.42	3.40
2	29.79	9.28	6.91
3	44.19	14.08	10.17
4	59.02	18.94	13.61
5	72.18	23.94	17.23
6	84.41	28.75	20.85
7	96.74	33.59	24.38
8	107.41	38.56	27.85
9	118.81	43.41	31.51
10	128.70	48.60	34.77

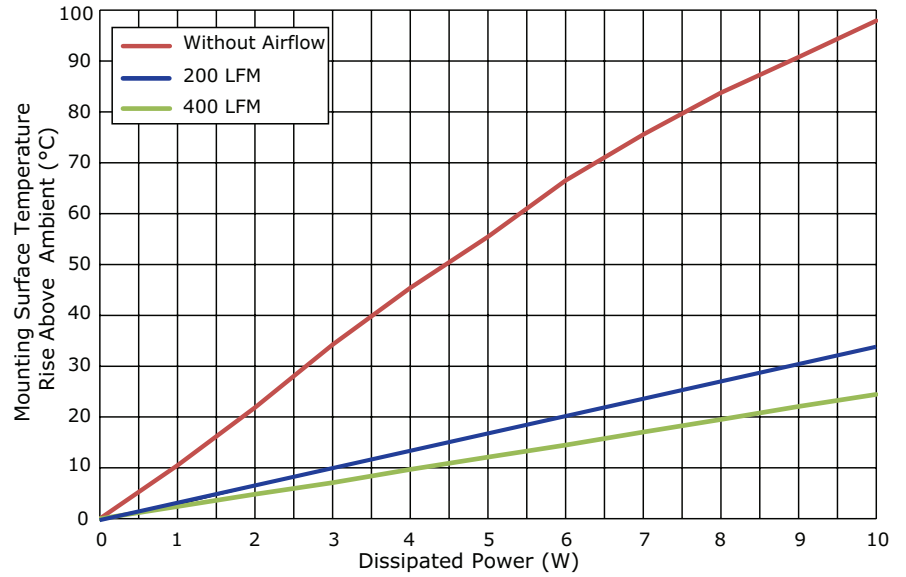


Ths: "hot spot" temperature measured on the heatsink  
Ta: ambient temperature

## PERFORMANCE CURVES (CONTINUED)

### HSE-B20381-035H-01

Power (W)	Heatsink Temperature Rise Above Ambient ( $\Delta T = T_{hs} - T_a$ ) (°C)		
	Natural Conv.	200 LFM	400 LFM
0	0	0	0
1	10.51	2.67	2.43
2	21.88	6.30	4.81
3	34.26	9.73	7.11
4	45.39	13.18	9.69
5	55.46	16.67	12.13
6	66.53	20.13	14.51
7	75.57	23.53	17.05
8	83.77	27.06	19.52
9	90.80	30.38	22.06
10	97.95	33.80	24.44

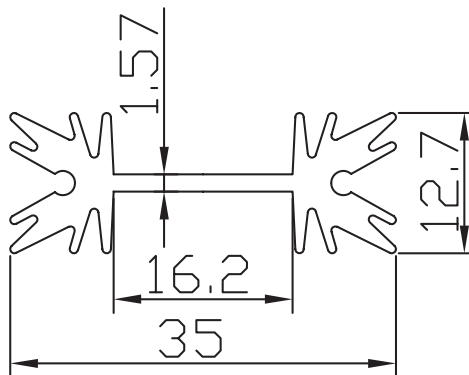
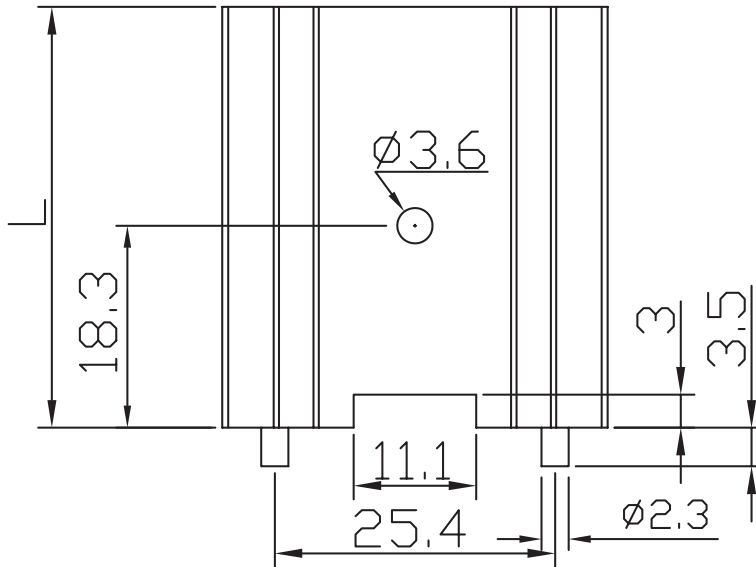


$T_{hs}$ : "hot spot" temperature measured on the heatsink  
 $T_a$ : ambient temperature

## MECHANICAL DRAWING

units: mm  
tolerance: ±0.5 mm

MATERIAL	AL 6063-T5
FINISH	black anodized
PIN MATERIAL	steel
PIN PLATING	tin



MODEL NO.	LENGTH, L (mm)	WEIGHT (g)
HSE-B20254-035H-01	25.4	11.33
HSE-B20381-035H-01	38.1	16.67

## REVISION HISTORY

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rev.	description	date
1.0	initial release	05/02/2017

The revision history provided is for informational purposes only and is believed to be accurate.



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CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.